



CITY OF SIOUX FALLS
PUBLIC WORKS
Providing a Better Quality of Life for You!

8TH STREET ARCH BRIDGE REHABILITATION PUBLIC OPEN HOUSE

Improving our
existing infrastructure
while preserving
history.

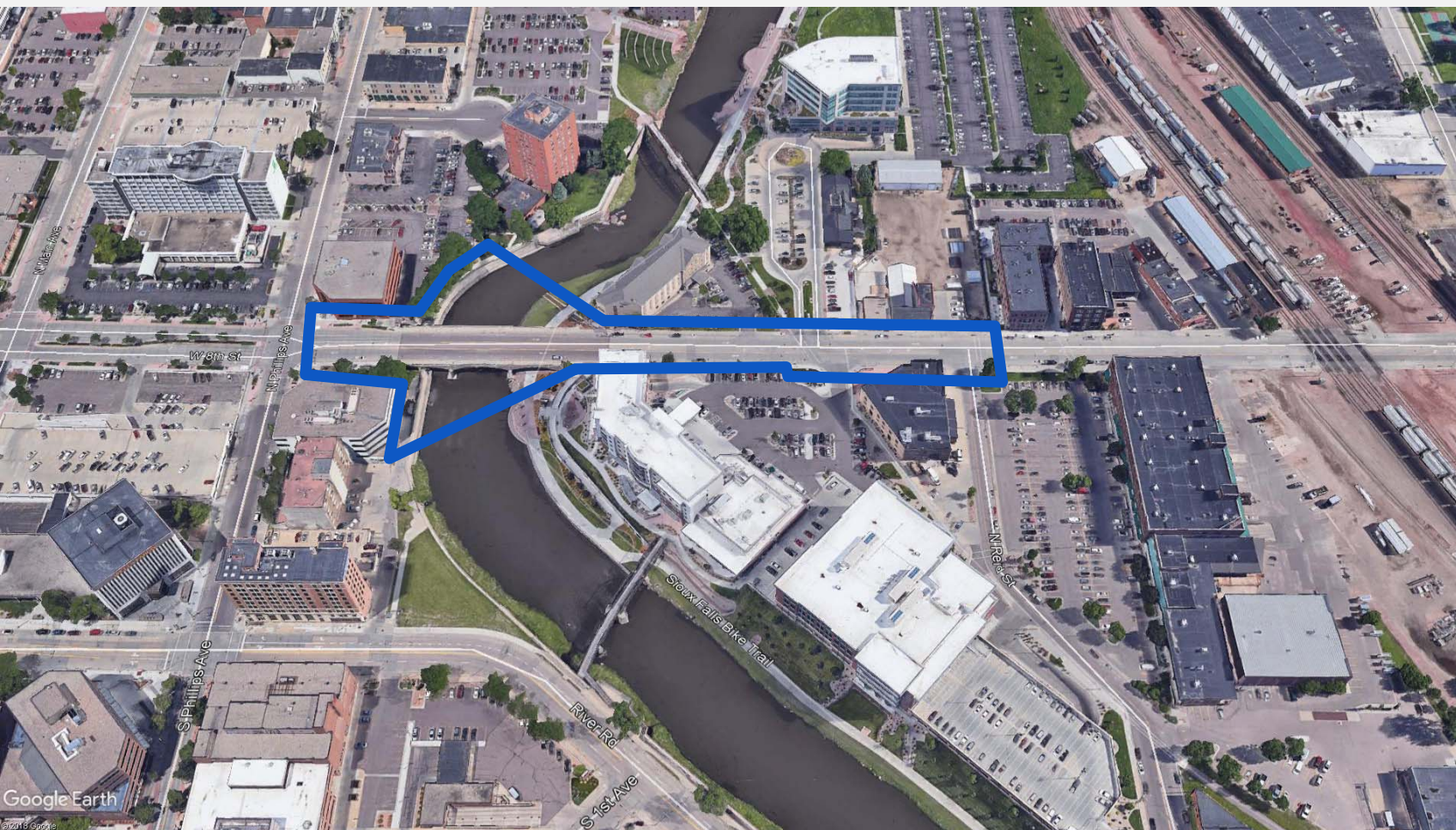


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8TH STREET ARCH

PROJECT AREA



8TH STREET ARCH

HISTORY

FIRST crossing of the Big Sioux River in the City of Sioux Falls



1876 – Washed out by Flooding



1882 – Proved Insufficient
for increasing demands



1912 – “The greatest and most costly
concrete bridge in South Dakota”

-Source: Western Contractor 1911

8TH STREET ARCH

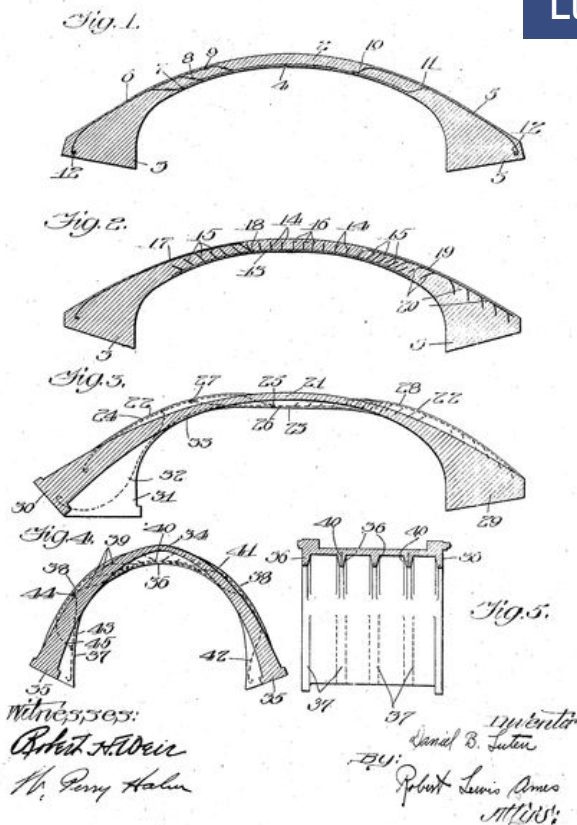
HISTORY

Luten Arch

No. 853,183.

PATENTED MAY 7, 1907.

D. B. LUTEN.
CONCRETE OR SIMILAR ARCH.
APPLICATION FILED JUNE 24, 1906.



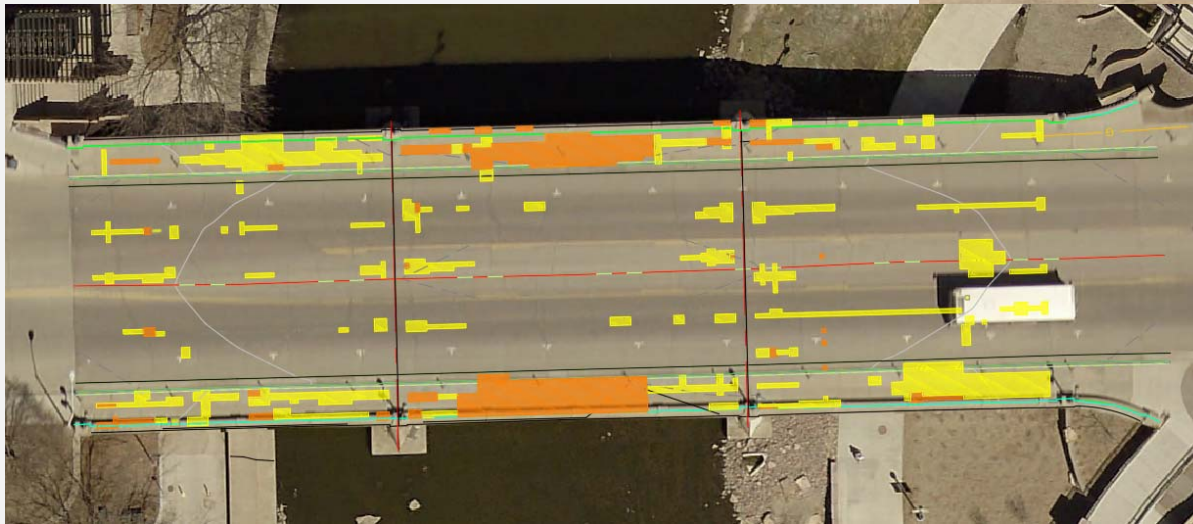
Luten Arches were considered flood-proof and came with a 5 year warranty.



8TH STREET ARCH

ANALYSIS

NEED FOR ANALYSIS:

- Age
- Condition
- Evaluate Rehabilitation Viability



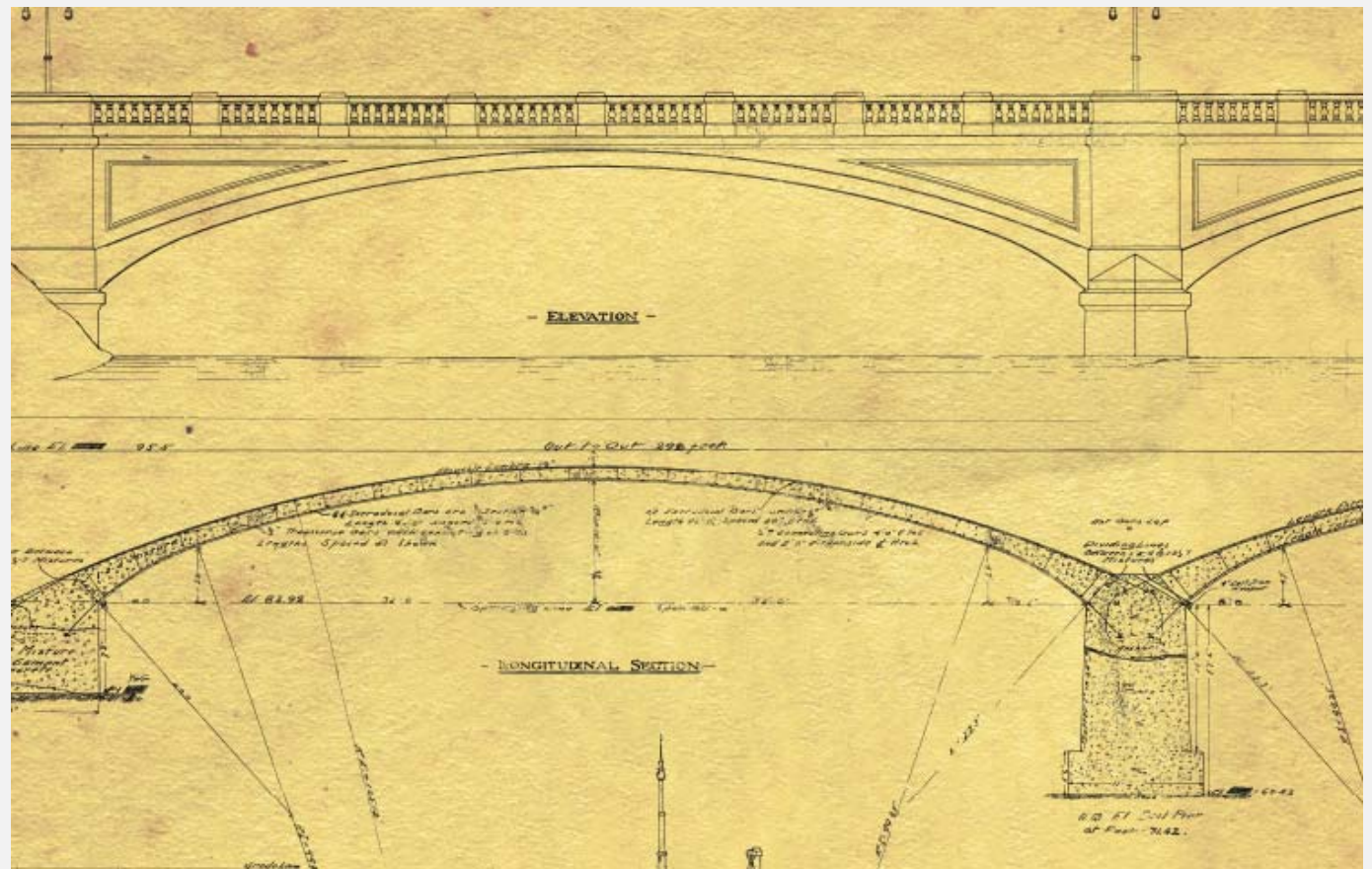
-  Minor deterioration & delamination (<1")
-  Moderate deterioration

8TH STREET ARCH

ANALYSIS

Rehabilitation is viable:

- Design Life
- Construction timeline
- Cost
- History



8TH STREET ARCH

PROPOSED RENDERINGS



8TH STREET ARCH

PROPOSED RENDERINGS

